	Application No.	Applicant(s)
Notice of Allowability	09/781,309	SHINAGAWA ET AL.
	Examiner	Art Unit
	ANH H. DO	2627
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate committee GHTS. This application is and MPEP 1308.	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>Amendment on 5/23/</u>	<u>2005</u> .	
2. X The allowed claim(s) is/are 1-6,8-25,28 and 29.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	been received. been received in Applicati	on No
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fil ENT of this application.	e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.	
(a) including changes required by the Notice of Draftspers		w ( PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		` ,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
		· ·
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 5/23/2005</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	onformal Patent Application (PTO-152) Summary (PTO-413), /Mail Date Summary (PTO-413), /Mail Date Summary Examiner  ANH HONG DO PRIMARY EXAMINEF:
		A CONTACT OF THE COMPANY OF PERSONS A CONT.

## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 5/23/2005 has been entered.

## Allowable Subject Matter

- 2. Claims 1-6, 8-25, 28, and 29 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present invention provides a new method, apparatus and computer product for encoding and decoding image data capable of maintaining the image quality and improving the compression rate at the same time (specification, page 3, lines 1-7). In particular, the new method, apparatus and computer product comprise the following features, which the prior art, either taken singly or in combination, does not teach:

- generating a virtual intermediate frame based on the matching; encoding an actual intermediate frame included in the image data based on the virtual intermediate frame (see independent claims 1, 5, 6, 28, and 29);

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- generating a virtual intermediate frame based on computing a matching between the key frames thus separated; decoding an actual intermediate frame based on the virtual intermediate frame and the supplementary data (see independent claims 17, 21, and 22).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H. DO whose telephone number is 571-272-7433. The examiner can normally be reached on 5/4-9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MATTHEW BELLA can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 3, 2006

ANH HONG DO

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